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THE MOSSES OF THE LAKE GEORGE FLORA

STEWART H. BURNHAM

(Concluded)

182. *Bryhnia Novae-Angliae* (Sull. & Lesq.) Grout. Huletts Lg. (Levy); on stones in a brook three miles south of Lake George, Oct., 1867 (Howe); Fort Edward, 1866 (Howe) in (CH), "leaves slightly papillose," also in (SH); Mt. Nebo; French Mt., determined by Mrs. Britton.
183. *Eurhynchium hians* (Hedw.) J. & S. Huletts Lg. (Levy); ground in woods, Moreau (Howe); southern W. Fort Ann, determined in part by both Mrs. Britton and Mr. Kaiser; marsh north of Glen Lake, determined by Miss Warner.
184. *Eurhynchium serrulatum* (Hedw.) Kindb. Ground in woods; frequent. Specimens have been determined by Mr. Kaiser.
185. *Eurhynchium strigosum* (Hoffm.) B. & S. Ground in woods and moist rocks; common. Our plants are referable to var. *robustum* Roell.
186. *Oxyrhynchium rusciforme* (Neck.) Warnst. On rocks in streams. Huletts Lg. (Levy); Horse Heaven, west of South Bay village; W. Fort Ann; Big Hollow, Bakers Falls; Anthony Kill, Round Lake. Specimens have been determined by Mrs. Britton, Prof. Holzinger, and Mr. Kaiser. (*Eurhynchium rusciforme* (Neck.) Milde; *Rynchosstegium rusciforme* B. & S.)
187. *Cirriphyllum Boscii* (Schwaegr.) Grout. Lake George (Hulst); Fort Edward, sterile (Howe). N. Y. State Cab. Rep. 20: 410. 1867, as *Hypnum Boscii* Schwaegr. Falls in Bond Creek, Moss Street, north of Hudson Falls; Willard Mountain.
188. *Cirriphyllum piliferum* (Schreb.) Grout. "Fort Edward, woods back of Institute." Exceedingly rare. (Howe). N. Y. State Cab. Rep. 19: 59. 1866, as *Hypnum piliferum* Schreb. The Fort Edward specimens in (CH) have been verified by Dr. Grout. Devines woods, Vaughns. May 10, 1913, determined by Mr. Kaiser who says, "rare and local. A desirable moss."
189. *Camptothecium nitens* (Schreb.) Schimp. Cold bogs and sphagnum swamps. Fort Edward (Howe) in (CH) and (SH). N. Y. State Cab. Rep. 19: 62. 1866, as *Hypnum nitens* Schreb. "(a) Peat bogs near Fort Edward" (Howe) in Bryol. Europ. 6: t. 622, also in Lesquereux & James, Mosses of North America, page 334. Dr. B. D. Gilbert refers to these specimens in Bryol. 8: 94. Sept. 1905. Roadside bogs south of South Bay village, determined in part by Mr. Kaiser; Rich's swamp near Shushan.
- Camptothecium nitens** var. **falcatum** (Peck) n. comb. "Fort Edward. A remarkable form with curved branches and second falcate leaves." (Howe). N. Y. State Cab. Rep. 22: 105. 1869. Dr. Howe's specimens are in the (SH). These specimens were from Moreau, Saratoga county: but in Bryol. Europ. VI: t. 622 they were erroneously referred to "(b) New Baltimore, Saratoga Co., 'var. Foliis secundis subfalcatis.'" New Baltimore is in Greene Co., N. Y.

190. *Climacium americanum* Brid. Shaded damp places on earth, rocks and logs; abundant.
191. *Climacium dendroides* (L.) W. & M. Swampy banks in deep shade, Fort Edward, rare (Howe) in (CH) and (SH); west of Shushan, in swamps both south and north of Scotch Hill schoolhouse, Apr 14, 1907, fruiting (Dobbin); bog north of Clarks Pond, in fine fruit, Sept. 21, 1907, and Sept. 11, 1909, determined by Miss Annie Lorenz. Specimens from Clarks Pond are in the (GH).
192. *Climacium Kindbergii* (R. & C.) Grout. Lake George (Hulst); bogs and wet places, southern W. Fort Ann; Bacon Pond, determined by Mr. Kaiser; bog north of Clarks Pond and wet woods southwest of Shushan.
193. *Porotrichum alleghaniense* (C.M.) Grout. Northern Washington county, determined by both Mrs. Britton and Prof. Holzinger; falls West Brook, W. Fort. Ann. Horse Heaven, west of South Bay village.
194. *Drepanocladus aduncus* (Hedw.) Warnst. "Trout Lake near Lake George." (Lesquereux). "Fort Edward" (Howe) N. Y. State Cab. Rep. 19: 61. 1866, as *Hypnum aduncum* Hedw. This moss is common in wet places and dessicated bottom of ponds.
Drepanocladus aduncus var. *falcatus* Ren. f. *subpiligera* Renauld. Hulett's Lg. (Levy).
Drepanocladus aduncus var. *flexilis* Renauld. Podunk old iron mine in water; Mud Pond marsh margin, south of Glen Lake. Determined by Mr. Kaiser.
Drepanocladus aduncus var. *gracilescens* (Schimp.) Warnst. Cold rill in woods, east of Thompson's gravel-bed; bog in Farley's pasture, east of Tripoli; Vaughns in pasture bogs. Specimens have been determined by Mr. Kaiser
Drepanocladus aduncus var. *intermedius* (B. & S.) Roth. Hulett's Lg. (Levy).
Drepanocladus aduncus, Group *pseudofluitans* Sanio. Wet pool bottom by roadside, north of Devines woods, determined by Mr. Kaiser; wet place on earth and old sticks, foot of Bacon Hill, two miles west of Fort Ann.
Drepanocladus aduncus, Group *typicum* Reb. Vaughns. Determined by Mr. Kaiser.
195. *Drepanocladus fluitans* (Dill.) Warnst. "Swamps and low grounds about Lake Champlain, common." (Lesquereux). N. Y. State Cab. Rep. 19: 61. 1866, as *Hypnum fluitans* L.; Crown Point gorge (Britton) in (GH); cool brook south of South Bay village; along Battenkill River, north of Shushan.
196. *Drepanocladus uncinatus* (Hedw.) Warnst. Hulett's Lg. (Levy); Barber trail, Black Mt. on rocks; Pond brook west of W. Fort Ann P. O., determined by Mr. Kaiser; Anaquassacook hills.
Drepanocladus uncinatus var. *plumulosus* (B. & S.) Roth. Outlet of New Michigan Pond. Determined by Prof. Holzinger.

197. *Drepanocladus vernicosus* (Lindb.) Warnst. R. C. Burnham's pasture, Vaughns, in wet pool bottoms. Determined by Mr. Kaiser who says "not by any means common—a desirable moss."
198. *Cratoneuron commutatum* (Hedw.) Roth. Hulets Lg. and Black Mt. (Jelliffe). Dr. Jelliffe in speaking of his trip to the summit of Black Mt., to Mrs. Britton, June 25, 1889, says; "*Hypnum commutatum* I think grew quite near the top of the mountain, on a side ledge, covering the ledge like a large mat, at least 100 feet across. It was a beautiful sight."
199. *Cratoneuron filicinum* (L.) Roth. Moist rocks and springy bogs in limestone regions; frequent.
200. *Calliergon cordifolium* (Hedw.) Kindb. Swamps and margins of pools; frequent. Specimens have been determined by Mrs. Britton, Prof. Holzinger, and Mr. Kaiser.
201. *Calliergon cuspidatum* (L.) Kindb. Swamps and grassy ditches. Crown Point gorge and Crown Point bay (Britton) in (GH); Lake George (Hulst); Fort Edward (Howe) in N. Y. State Cab. Rep. 19: 60. 1866, as *Hypnum cuspidatum* L. Dr. Howe's specimens from Fort Edward and from "waterholes near Kingsbury" are in (CH) and (SH). Hunters bridge, east of Glen Lake; foot of Sugar Loaf Mt. and east of Tripoli, determined by Mr. Kaiser.
202. *Calliergon giganteum* (Schimp.) Kindb. Pond hole, top of Sugar Loaf Mt.; determined by Mr. Kaiser, who says, "Your *Calliergon giganteum* can be very much more pinnate and robust than your material: but it is a good find. Note the conspicuous inflated basal cells of the leaves which easily separate it from *C. cordifolium*."
203. *Calliergon Schreberi* (Willd.) Grout. Shaded ground, rocks and banks; abundant.
204. *Campyllum chrysophyllum* (Brid.) Bryhn. Moist ground and rocks and decayed wood in shaded places; common. Specimens have been determined by Prof. Holzinger and Mr. Kaiser.
205. *Campyllum hispidulum* (Brid.) Mitt. Roots of trees, decayed wood and rocks in moist shady places. Hulets Lg. (Levy); Lake George (Hulst); southern W. Fort Ann; Vaughns, determined by Mr. Kaiser, who says "a desirable moss"; woods north of Cambridge.
206. *Campyllum radicale* (Beauv.) Grout. Hulets Lg. (Levy); Fort Edward, decayed logs and sticks in woods (Howe) in (CH) as *Hypnum Bergenense* Aust.
207. *Campyllum stellatum* (Schreb.) Bryhn. Hulets Lg. (Levy); Fort Edward (Howe) in (CH); pasture bogs, north of Vaughns.
208. *Amblystegium fluviatile* (Sw.) B. & S. Hulets Lg. (Levy).
209. *Amblystegium irriguum* (Wils.) B. & S. Hulets Lg. (Levy); rocky bed of Pond brook, east of W. Fort Ann P. O., determined by Mr. Kaiser.
210. *Amblystegium Juratzkanum* Schimp. Hulets Lg. (Levy); stones, Badham's (Brown's) pasture copse, Vaughns, Oct., 1913, determined by Mr. Kaiser, who says "in fine fruiting condition."

211. *Amblystegium Kochii* B. & S. Hulets Lg. (Levy); ground and logs in shaded places, Vaughns and vicinity, determined by Mr. Kaiser.
212. *Amblystegium orthocladon* (Beauv.) Kindb. Hulets Lg. (Levy); Fort Edward (Howe) in (GH); Schuylerville (Greenalch); Shushan on stones and bushes near or in water (Dobbin); Big Hollow, Bakers Falls, determined by Mr. Kaiser.
213. *Amblystegium riparium* (L.) B. & S. Earth rocks and roots of shrubs in pools and wet places; frequent. Mr. Kaiser says "*Amblystegium riparium* is extremely variable according to its more or less aquatic habitat." *Amblystegium riparium* var. *longifolium* (Schultz) B. & S. Bog north of Thompson's gravel-bed. Determined by Mr. Kaiser.
214. *Amblystegium serpens* (L.) B. & S. Moist ground, rocks and old logs. Hulets Lg. (Jelliffe) (Levy); Moreau (Howe); DeRidder hill near Schuylerville (Greenalch); Shushan (Dobbin): cave on Nickerson farm, west of Fort Ann; Vaughns; swamp north of Glen Lake, determined by Mr. Kaiser; woods north of Cambridge.
215. *Amblystegium varium* (Hedw.) Lindb. Decaying wood, base of trees, earth and rocks in swamps and moist woods; frequent. Several collections determined by Mr. Kaiser.
Amblystegium varium approaching var. *oligorhizon* Lindb. Hulets Lg. (Levy).
216. *Hygrohypnum dilatatum* (Wils.) Loeske. Hulets Lg. (Levy).
217. *Hygrohypnum eugyrium* (B. & S.) Loeske. Hulets Lg. (Levy); falls, West brook, W. Fort Ann.
218. *Hygrohypnum ochraceum* (Turn.) Loeske. Hulets Lg. (Levy); Fort Edward (Howe) in (CH); Johnsburg (Peck); Luzerne, between Eping (Efner?) Lake and Corinth Lg. (Clinton) in (SH).
219. *Hypnum crista-castrensis* L. Earth, rocks and decaying logs, not infrequent in elevated regions, often under the shade of evergreen trees.
220. *Hypnum cupressiforme* L. Hulets Lg. (Levy).
221. *Hypnum curvifolium* Hedw. Hulets Lg. (Levy); Bolton (Jelliffe) in (GH); Fort Edward (Howe); DeRidder hill near Schuylerville (Greenalch); Shushan (Dobbin); road north of Mount Hope, determined by Mr. Kaiser.
222. *Hypnum fertile* Sendt. Hulets Lg. (Levy).
223. *Hypnum Haldanianum* Grev. Decaying wood and ground in woods; abundant.
224. *Hypnum imponens* Hedw. Rotten logs, occasionally on rocks; abundant.
225. *Hypnum molluscum* Hedw. Rocks, ground and old logs in low woods. Fort Edward and Moreau (Howe) in (CH); southern W. Fort Ann, determined in part by Mrs. Britton and by Mr. Kaiser.
226. *Hypnum pallescens* (Hedw.) B. & S. Hulets Lg. (Levy).
227. *Hypnum patientiae* Lindb. Wet meadows, swamps and decaying wood in shaded places; common.
Hypnum Patientiae var. *americanum* (R. & C.) Heald. Hulets Lg. (Levy).

228. *Hypnum pratense* Koch. "Bogs around Lake George and Lake Champlain, sterile." (Lesquereux). N. Y. State Cab. Rep. 19: 62. 1866. Huletts Lg. (Levy).
229. *Hypnum recurvans* (Mx.) Schwaegr. Base of trees, rotten logs, earth and humus in low woods and swamps; frequent. Specimens have been determined by Mrs. Britton, Miss Warner, and Mr. Kaiser.
230. *Hypnum reptile* Mx. Decaying logs, base of trees and rocks. Huletts Lg. (Levy); Lake George (Hulst); Luzerne (Clinton) in (SH); Shushan (Dobbin); southern W. Fort Ann; Vaughns; west of Smiths Basin. Several collections determined by Miss Warner and by Mr. Kaiser.
231. *Raphidostegium adnatum* (Mx.) B. & S. Huletts Lg. (Levy).
232. *Raphidostegium carolinianum* (CM.) J. & S. Huletts Lg. (Levy).
233. *Plagiothecium denticulatum* (L.) B. & S. Moist rocks and cliffs, roots of trees, decayed wood and ground; abundant.
Plagiothecium denticulatum forma *propagulifera* Ruthe. Old well, Haynes pasture, northeast of Vaughns. Determined by Mrs. Britton.
234. *Plagiothecium deplanatum* (Schimp.) Grout. Rocks and clayey soil in woods; infrequent. East of Thompsons gravel-bed; Vaughns. Determined by both Mrs. Britton and by Mr. Kaiser. Specimens are in the (SH).
235. *Plagiothecium elegans* (Hook.) Sull. Crown Point gorge (Britton) in (GH); Huletts Lg. (Levy).
236. *Plagiothecium laetum* B. & S. Huletts Lg. (Levy).
237. *Plagiothecium Muellerianum* Schimp. Huletts Lg. (Levy).
238. *Plagiothecium pulchellum* (Dicks.) B. & S. Huletts Lg. (Levy).
239. *Plagiothecium Roeseanum* (Hampe) B. & S. "Near Lake George." (Lesquereux) in N. Y. State Cab. Rep. 19: 64. 1866, as *Hypnum Sullivantiae* Schimp. Trunks of trees, lower falls, N. Beaver creek, Vaughns; and roots of pines, swamp woods north of Glen Lake. Determined by Mr. Kaiser.
240. *Plagiothecium striatellum* (Brid.) Lindb. Huletts Lg. (Levy); Shushan on rotten logs (Dobbin); falls, West brook, W. Fort Ann, determined by both Mrs. Britton and Mr. Kaiser.
241. *Plagiothecium sylvaticum* (Huds.) B. & S. Huletts Lg. (Levy); Shushan on moist rocks (Dobbin); Black Mt.; Vaughns; Round Lake; Wilburs Basin.
242. *Plagiothecium turfaceum* Lindb. Huletts Lg. (Levy); "Ground and old logs in woods. Fort Edward." (Howe) in N. Y. State Cab. Rep. 22:58 1869. Dr. Howe's specimens are in (CH). Black Mt., determined by Miss Warner; Ballston Lake; woods south of Shushan on old stumps.
243. *Amblystegiella adnata* (Hedw.) Nichols. On stones and trunks of trees; frequent. Several collections determined by Mr. Kaiser.
244. *Amblystegiella confervoides* (Brid.) Loeske. Huletts Lg. (Levy).
245. *Entodon cladorrhizans* (Hedw.) CM. Rocks, decayed wood and roots of trees. Huletts Lg. (Jelliffe); Fort Edward (Howe) in (CH); southern W. Fort Ann; Vaughns; northwest Hartford; Shushan.

246. *Entodon seductrix* (Hedw.) CM. Habitat similar to that of the preceding species. Dresden (Peck); cliffs south of South Bay village; and elsewhere with the preceding species.
247. *Platygyrium repens* (Brid.) B. & S. Hulets Lg. (Jelliffe) (Levy); Shushan on rotten wood (Dobbin), determined by Miss Warner, Dr. Grout, and Mr. Kaiser; old logs, east of Tripoli and northeast of Vaughns, determined by Mr. Kaiser.
248. *Pylaisia intricata* (Hedw.) R. & C. Hulets Lg. (Levy).
249. *Pylaisia polyantha* (Schreb.) B. & S. Hulets Lg. (Levy).
250. *Pylaisia Schimperi* R. & C. Trunks of trees, ground and rocks; frequent.
251. *Anacamptodon splachnoides* (Froel.) Brid. Knotholes and cavities of deciduous trees. Bolton (Levy); Fort Edward (Howe) in (CH); Rich's swamp near Shushan (Dobbin); Peaked Mt., determined by Mrs. Britton; Vaughns.
252. *Leucodon brachypus* Brid. Dresden (Peck); Shushan on stone wall (Dobbin); fallen beech trunk, Farley's (Vaughn's) woods, Vaughns; trees, Anaquassacook hills.
253. *Leucodon julaceus* (Hedw.) Sull. Hulets Lg. (Levy); northern Washington county, determined by Prof. Holzinger; trees, bog north of Clarks Pond.
254. *Leucodon sciurioides* (L.) Schwaegr. Hulets Lg. (Levy).
255. *Forsstroemia trichomitria* (Hedw.) Lindb. Shushan on trees (Dobbin).
256. *Homalia Jamesii* Schimp. Cold Spring opposite to Hulets Lg. (Jelliffe) in (GH). Dr. Jelliffe told Mrs. Britton, Sept. 22, 1889, "*Homalia* I cannot find in any quantities this year."
257. *Neckera pennata* (L.) Hedw. Trunks of trees, usually in upland woods. Blue Mt. Lake (Knight) in (CH); Hulets Lg. (Levy); Fort Edward (Howe); Shushan (Dobbin); Hague.
Neckera pennata var. *oligocarpa* (Bruch) Grout. Crown Point gorge (Britton) in (GH); Hulets Lg. and Cold Spring (Jelliffe). Dr. Jelliffe wrote Mrs. Britton, Sept. 22, 1889, that "*the Neckera*" was "extremely abundant, entirely covering the under sides of the rocks that make up what is called Deer's Leap just opposite Hulets Landing."
258. *Fontinalis dalecarlica* B. & S. Cold Spring, South Bay; Mt. Nebo.
259. *Fontinalis gigantea* Sull. Cold streams in elevated regions. Peaked Mt. ravine and Big Notch, north; ravine south base of Sugar Loaf Mt.; Fly Kill, south of Shushan.
260. *Fontinalis Lescurii* Sull. Crown Point gorge (Britton) and Lake George (Hulst) in (GH); Hulets Lg. (Levy); Vaughns on rocks and soil in creeks and ditches, determined by Mr. Kaiser.
261. *Fontinalis novae-angliae* Sull. Hulets Lg. (Jelliffe) in (CH), also (Levy); Shushan, rocks in Fly Kill (Dobbin), determined by Dr. Peck, also mentioned in Am. Bot. 17: 36. May, 1911; Black Mt.; rocky streams, road north of Putnam mountains, determined by Mr. Kaiser; Peaked Mt. ravine.

262. *Fontinalis Sullivantii* Lindb. Hulets Lg. (Levy).
263. *Dichelyma capillaceum* (L.) B. & S. Fort Edward (Howe) in (CH); swamp south of Shushan, on submerged bushes (Dobbin); bog north of Thompsons gravel-bed and wet place in woods south of Sugar Loaf Mt., base of shrubs in shallow water.

HUDSON FALLS, N. Y.

TWO PUBLICATIONS ON TROPICAL AMERICAN LICHENS

L. W. RIDDLE

There have come to my attention within the past year, two publications describing a large number of new lichens from Mexico and the West Indies. As neither publication is likely to have a general distribution, it seems desirable to call attention to them by means of this review.

The first is a folio brochure of 31 pages published independently in Mexico City, in 1914, with the title: "Lichens du Mexique (Etats de Puebla et du Michoacan) recueillis par le Frere Arsène Brouard" by Dr. M. Bouly de Lesdain. This is an enumeration of 226 species of Mexican lichens collected mainly by Brother Arsène, but also by Brother Nicolas and Brother Amable. Sixty-five species are described as new. Latin diagnoses are given in each case, but there are no indications of the relationships of the species, and no critical notes. The generic affinities of the new species are as follows (in cases where the nomenclature and generic limitations differ from those of Engler and Prantl, the latter names are given in parenthesis): Eight species are described as new in *Buellia*; 5 each in *Parmelia*, *Lecanora*, *Pertusaria*; 4 in *Lecidea*; 3 each in *Rinodina*, *Acarospora*, *Catillaria*, *Placodium* (*Caloplaca* in part), and *Arthothelium*; 2 each in *Physcia*, *Caloplaca*, *Aspicilia* (*Lecanora* in part), *Blastenia*, *Psora* (*Lecidea* in part), and *Staurothele*; one each in *Nephromium*, *Heppia*, *Pyrenodesmia* (*Caloplaca* in part), *Lecania*, *Megalospora*, *Bilimbia*, *Bacidia*, *Toninia*, *Arthonia*, *Arthopyrenia* and *Collema*.

The second publication forms Part 7 of the *Annales Academiae Scientiarum Fennicae*, Series A, volume 6 (Helsingfors, Finland, 1915). This Academy was founded in 1911, and must not be confused with the well-known *Societas pro fauna et flora Fennica*. So far as I am aware, the annales of the new Academy are received currently in this country only at the Smithsonian Institution. The "Parts" of the volume are paged separately. Part 7 is entitled "Additamenta ad Lichenographiam Antillarum illustrandam" by Edvard Wainio, probably the greatest living authority on the lichens of tropical America. His "Lichenes Antillarum" was published in the *London Journal of Botany* in 1895-1896.

The present paper is 226 pages in length and enumerates a large number of interesting species and varieties from the American Virgin Islands, Guadeloupe, Trinidad, Jamaica, St. Domingo, and a few of the smaller adjacent islands. The material was collected for the most part by C. Raunkiaer, F.